

FIG. 1

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100

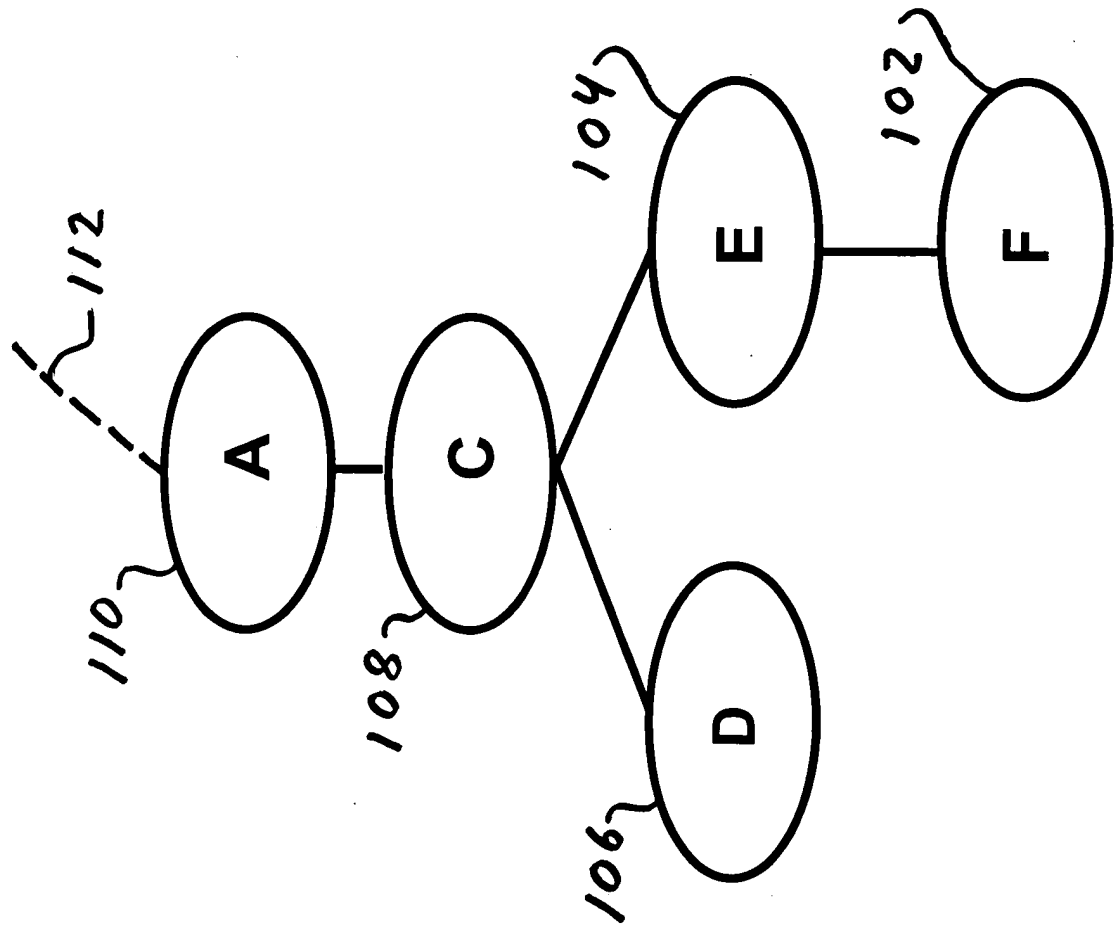


FIG. 2A

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200

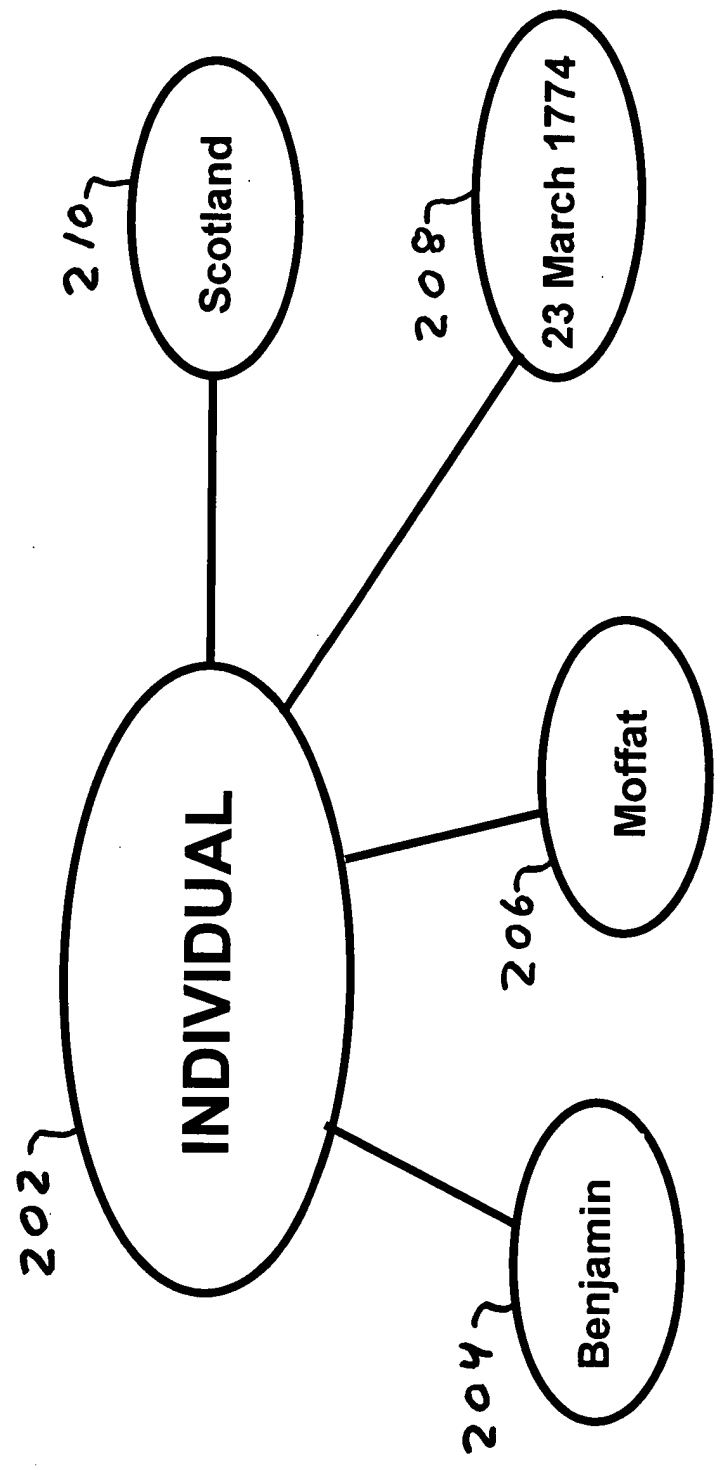


FIG. 2B

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250

252	—	PV-ID# 5
254	—	(60) Benjamin MOFFAT
256	—	Bir:
258	—	(57) Date: 23 MAR 1774
260	—	(90) Place: Dalkeith, Midlothian, Scotland,
262	—	Note:
264	—	(51) Family records and Temple Index Bureau give birth 23 Mar 1774, no parents.
266	—	Dea:
268	—	(57) Date: 22 AUG 1826
270	—	(90) Place: Newton, Midlothian, Scotland,
272	—	Src:
274	—	(45) Newton Parish Registers Established Church of Scotland
276	—	Bur:
278	—	(57) Date: 23 AUG 1826
280	—	(90) Place: Newton, Midlothian, Scotland,

FIG. 3A

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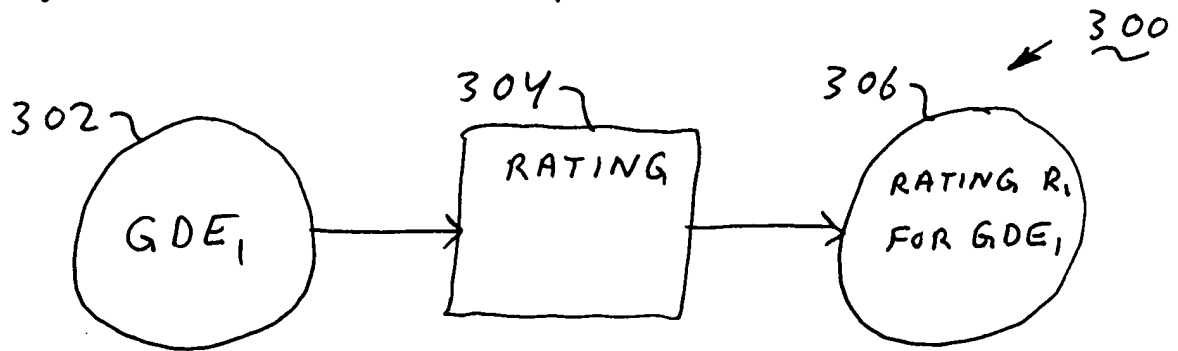


FIG. 3B

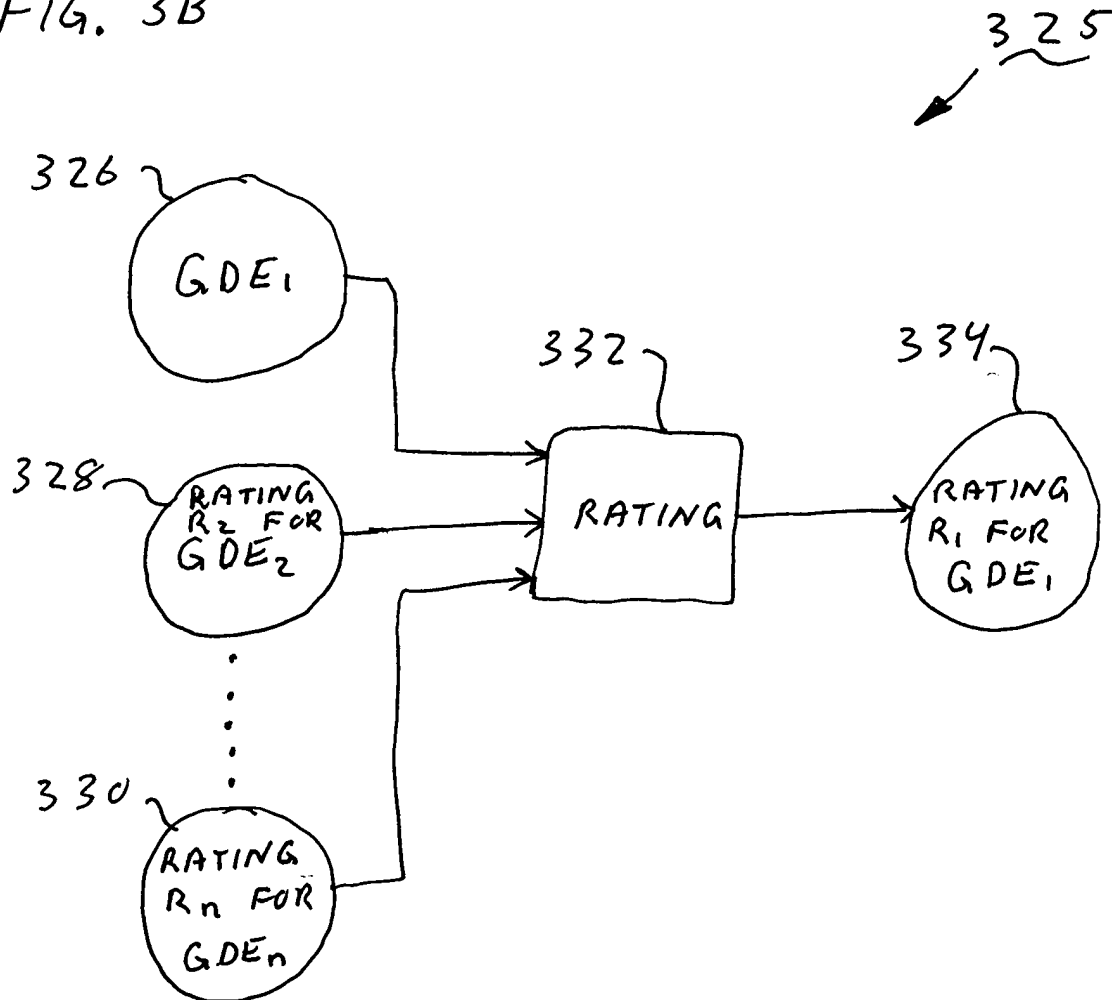


FIG. 3C

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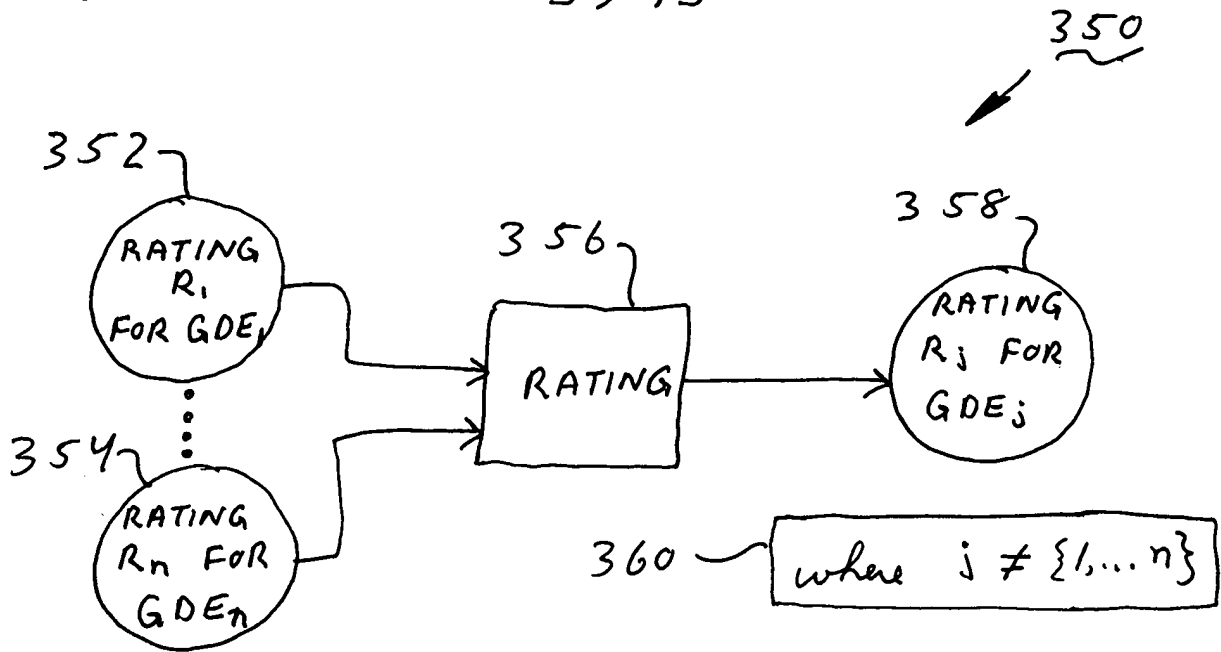


FIG. 3D

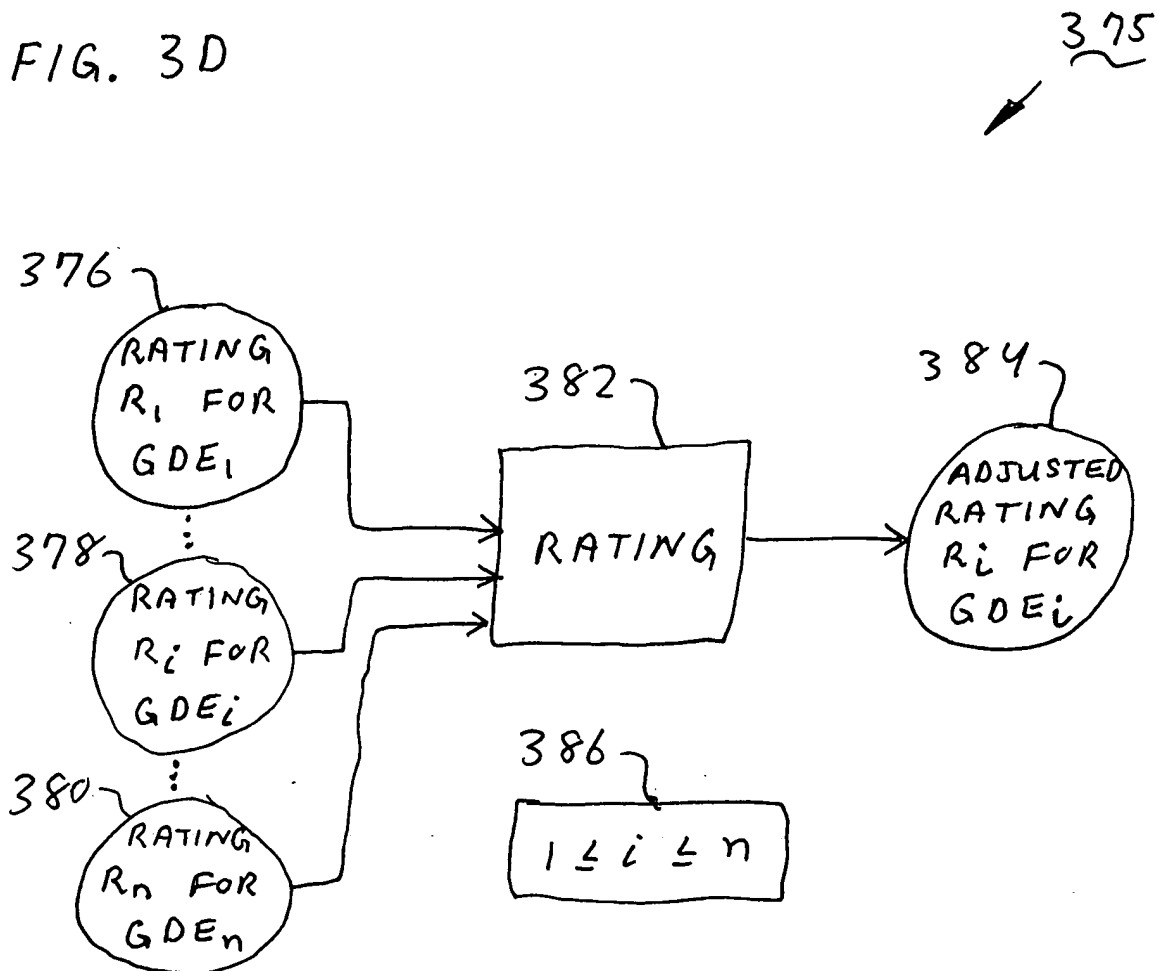


FIG. 4

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400

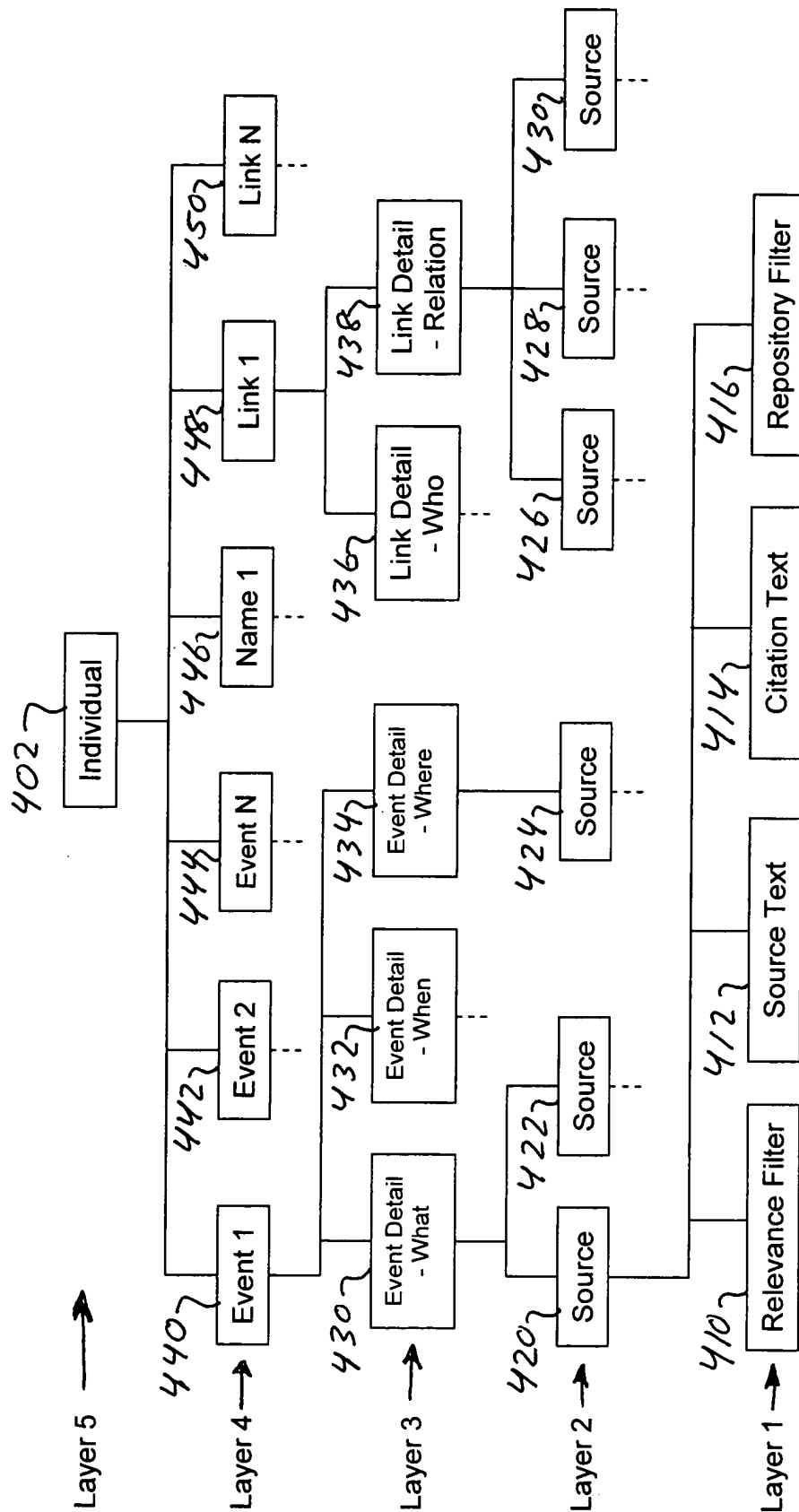


FIG. 5

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Repository	Points
Ancestral File	20%
Ancestry - World Tree	40%
Family Tree Maker - World Family Tree	40%
Pedigree Resource File	25%
Ordinance Index	80%
International Genealogical Index	25%
Daughters of the American Revolution	100%
Not Recognized	50%
Null (= 0 or 1 char)	0%

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RepositoryConfidencePoints = RepositoryMapFunction(SourceRepository) * 30%

FIG. 6

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Source Type	Event/Link Type				
	Birth	Christening	Marriage	Death	Burial
620 Birth Record	100%	95%	0%	0%	0%
622 Christening Record	95%	100%	0%	0%	0%
624 Marriage Record	50%	50%	100%	0%	0%
626 Betrothal/Engage	50%	50%	85%	0%	0%
628 Death Record	25%	25%	50%	100%	95%
630 Burial Record	25%	25%	50%	95%	100%
632 Not Recognized	50%	50%	50%	50%	50%
634 Not Specified	30%	30%	30%	30%	30%

606 608 610 612 614

TypeRelevancePoints = TypeMapFunction(Event/Link Type, Source Type) * 40%

640

FIG. 7A

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$$y = \frac{1}{(1+e^{-x})}$$

704

SourceLengthPoints = $(1/(1+(e^{-(\text{SourceLength} - 100)/50}))) * 20\%$

706

CitationLengthPoints = $(1/(1+(e^{-(\text{CitationLength} - 75)/20}))) * 10\%$

708

SourceRating = TypeRelevancePoints + SourceLengthPoints +
CitationLengthPoints + RepositoryConfidencePoints

FIG. 7B

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752

SourceRating = (Sigmoid(TitleLength, 20, 10) * 20% +
TextRating * 60%) * SourcePoints

754

SourceRating = (Sigmoid(TitleLength, 80, 20) * 80%) *
SourcePoints

756

TextRating = Sigmoid(TextLength, 200, 50)

758

Source Type	Source Points
Primary	100%
Secondary	80%
Unknown	80%
Questionable	30%
Unreliable	10%

750

FIG. 8

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$$\text{EventLinkDetailPoints} = ((1/(1+(e^{-(\text{NumberOfSources} - 1)^2}))) + \text{Average}(\text{SourceRatings})) * 100\%$$

804

$$\text{WhatDetailPoints} = (1/(1+(e^{-(\text{NumberOfWhatDetails} - 1)^2}))) * 10\%$$

806

$$\text{WhenDetailPoints} = (1/(1+(e^{-(\text{NumberOfWhenDetails} - 1)^2}))) * 45\%$$

808

$$\text{WhereDetailPoints} = (1/(1+(e^{-(\text{NumberOfWhereDetails} - 1)^2}))) * 45\%$$

810

$$\text{EventRating} = (\text{WhatDetailPoints} + \text{WhenDetailPoints} + \text{WhereDetailPoints}) * \text{Average}(\text{EventLinkDetailPoints})$$

FIG. 9

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↖

902 }

WhoDetailPoints = $(1/(1+(e^{-(\text{NumberOfWhoDetails} - 1)^2}))) * 50\%$

904 }

RelationDetailPoints = $(1/(1+(e^{-(\text{NumberOfRelationDetails} - 1)^2}))) * 50\%$

906 }

LinkRating = $(\text{WhoDetailPoints} + \text{RelationDetailPoints}) * \text{Average}(\text{EventLinkDetailPoints})$

FIG. 10

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1000 ↗

EventSequenceRating = [A, B]

A = 100% if temporal Events are dated in ascending order,
(i.e, Birth, Christening, Marriage, Death, Burial)

B = 50% if temporal Events are not dated in ascending order.

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IndividualAccuracyRating = Average(EventRating and LinkRating) *
EventSequencRating

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IndividualCompletnessRating = (1/(1+(e^(-(NumberOfEventsAndLinks
- 4)*1))))

10087

IndividualRating = IndividualAccuracyRating * IndividualCompletnessRating